

REMARKS

This is intended as a full and complete response to the Office Action dated October 3, 2003, having a shortened statutory period for response set to expire on January 3, 2004. Please reconsider the claims pending in the application for reasons discussed below.

Claims 1-27 are pending in the application. Claims 1-29 remain pending following entry of this response. New claims 28-29 have been added to recite aspects of the invention. Applicants submit that the amendments and new claims do not introduce new matter.

Claims 1-27 stand rejected under 35 USC § 102(e) as being anticipated by *Chaudhuri et al.* (US 6,529,901) and by *Carino* (US 6,353,818). Applicants respectfully traverse the rejections.

The rejected claims are directed to "selectively logging query implementation information of a query." Accordingly, each claim recites some conditional language regarding whether or not query implementation information will be logged for a given query. For example, Claim 1 recites "determining whether query implementation information should be logged for the query". Neither of the cited references recite such a step. Generally, *Chaudhuri* is directed to automating statistics management for query optimizers. *Chaudhuri* defines a statistic as a "summary structure associated with a set of one or more columns in a relation." (5:67-6:1; emphasis added.) Thus, by definition, a given statistic spans a plurality of queries over a period of time and is not synonymous with the claimed "query implementation information", which is query-specific, execution-specific information, i.e., information for a given execution of a given query. Accordingly, "query implementation information" may be used in the creation of statistics, but is not itself a statistic. This difference is further emphasized in that *Chaudhuri* points out that "statistics need to be updated as the data in [a database] changes." (6:36-37.) By definition, "query implementation information" is never updated since such information is self-contained with respect to a given execution of a given query. Therefore, *Chaudhuri* does not teach, show or suggest "determining whether query implementation information should be logged for the query". Therefore,

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the claims are believed to be allowable and allowance of the same is respectfully requested.

The Examiner asserts that "determining whether query implementation information should be logged for the query" is disclosed by *Chaudhuri* at 6:58-67; 7:1-5; 8:5-30; and 16:38-49. Respectfully, Applicants disagree. The cited text at 6:58-7:5 describes how a "workload 202" is determined. A "workload" is defined as "any suitable set of one or more queries." (6:58-59.) *Chaudhuri* teaches that the one or more queries can be identified by logging events and that filters can be applied on a number of properties of events in the log to select queries. (6:58-67.) Therefore, the only mention of logging at 6:58-67 is with respect to queries for the purpose of determining a workload. *Chaudhuri* at 6:58-7:5 does not teach, show or suggest determining whether query implementation information (as opposed to just the query itself, as disclosed by *Chaudhuri*) should be logged for a query. Therefore, the claims are believed to be allowable and allowance of the same is respectfully requested.

Chaudhuri at 8:5-30 defines a "memory-minimal essential set of statistics" and an "update-cost-minimal essential set of statistics". As noted above, "query implementation information" is not synonymous with statistics. Therefore, *Chaudhuri* at 8:5-30 does not teach, show or suggest determining whether query implementation information should be logged. Further, respectfully, Applicants are unable to identify any explicit teaching, showing or suggestion of selective logging of any kind of information in the cited passage. Therefore, the claims are believed to be allowable and allowance of the same is respectfully requested.

Chaudhuri 16:38-49 describes workload compression techniques. Regarding logging, this passage teaches logging the execution cost of each query along with each query. (16:41-42.) Therefore, this passage teaches away from any kind of selective logging and, in particular, determining whether query implementation information should be logged. Therefore, the claims are believed to be allowable and allowance of the same is respectfully requested.

Because Applicants believe the base claims are allowable, it follows that the respective dependent claims are also allowable. Accordingly, a detailed discussion of the dependent claims is not necessary. However, with respect to a number of the

dependent claims Applicants were unable to identify any basis for the rejection in the cited passages. For example, the Examiner rejects Claims 2, 15 and 25 on the basis of 6:58-67; 7:1-5; 8:5-30; and 16:38-48. However, no mention of query monitoring is made in any of these passages. Further, the distinction between logging and monitoring is not recognized in these passages. Further, the Examiner rejects claim 3 on the basis of 2:17-55; 16:40-47; 19:5-34; and 21:48-52. However, no mention of a user-specified value is made in any of these passages. Therefore, the claims are believed to be allowable and allowance of the same is respectfully requested.

Regarding *Carino*, a method of optimizing database queries with user-defined functions is disclosed. The Examiner asserts that "determining whether query implementation information should be logged for the query" is disclosed by *Carino* in the Abstract, Fig. 2, and 6:24-67. Applicants respectfully disagree. At best, the cited materials disclose tracking various resources in the invocation of user-defined functions (UDFs) for the purpose of building statistics/demographics. As described above, statistics are not synonymous with "query implementation information". Further, the cited materials teach indiscriminate tracking and in no way teach, show or suggest determining whether to track or log any kind of information at all. Therefore, the claims are believed to be allowable and allowance of the same is respectfully requested.

Because Applicants believe the base claims are allowable, it follows that the respective dependent claims are also allowable. Accordingly, a detailed discussion of the dependent claims is not necessary. However, with respect to a number of the dependent claims Applicants were unable to identify any basis for the rejection in the cited passages. For example, the Examiner rejects Claims 2, 15 and 25 on the basis of Abstract, Fig. 2, and 6:24-67. However, no mention of query monitoring is made in any of these passages. Further, the distinction between logging and monitoring is not recognized in these passages. Further, the Examiner rejects claim 3 on the basis of Abstract, Fig. 2, and 8:20-67. However, no mention of a user-specified value is made in any of these passages. In fact, the threshold value referred to is "derived from the baseline capabilities of the DMBS nodes" and, thus, teaches away from a user-specified value. (8:30-32; emphasis added.) Therefore, the claims are believed to be allowable and allowance of the same is respectfully requested.

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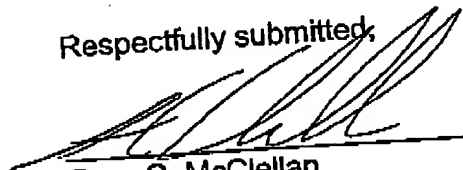
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Applicants further note that Claim 22 has been improperly characterized. Specifically, the Examiner characterizes Claim 22 in the same manner that Claims 1 and 12 are characterized. Such a characterization is improper because Claim 22 recites significantly different elements and/or limitations. Accordingly, Applicants believe Claim 22 has not been properly rejected and should be allowed.

In conclusion, the references cited by the Examiner do not teach, show, or suggest the invention as claimed.

Having addressed all issues set out in the office action, Applicant respectfully submits that the claims are in condition for allowance and respectfully request that the claims be allowed.

Respectfully submitted,



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